

Australian/New Zealand Standard™

**Testing of balanced communication  
cabling in accordance with  
ISO/IEC 11801**

**Part 2: Patch cords and work area  
cords**



## **AS/NZS IEC 61935.2:2006**

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee CT-001, Communications Cabling. It was approved on behalf of the Council of Standards Australia on 20 September 2006 and on behalf of the Council of Standards New Zealand on 22 September 2006.  
This Standard was published on 11 October 2006.

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*This Standard was issued in draft form for comment as DR 06364.*

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Originated as part of AS/NZS 3087:2000.  
Jointly revised and redesignated as AS/NZS IEC 61935.2:2006.

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Jointly published by Standards Australia, GPO Box 476, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

ISBN 0 7337 7775 9

## PREFACE

This Standard was prepared by the Standards Australia/Standards New Zealand Committee CT-001, Communications Cabling to supersede AS/NZS 3087.2:2003, *Telecommunications installations—Generic cabling systems, Part 2: Specification for the testing of patch cords in accordance with AS/NZS 3080*.

The objective of this Standard is to provide users with methods to ensure the compatibility of modular plug cords to be used in cabling according to ISO/IEC 1180, which has been adopted as AS/NZS 3080, and provide test methods and associated requirements to demonstrate the performance and reliability of these cords during their operational lifetime.

This Standard is identical with, and has been reproduced from IEC 61935-2:2005, *Testing of balanced communication cabling in accordance with ISO/IEC 11801—Part 2: Patch cords and work area cords*.

As this Standard is reproduced from an international standard, the following applies:

- (a) Its number appears on the cover and title page while the international standard number appears only on the cover
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References to International Standards should be replaced by references to Australian or Australian/New Zealand Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian/New Zealand Standard</i>	
ISO/IEC		AS/NZS	
11801	Information technology— Generic cabling for customer premises	3080	Telecommunications installations—General cabling for commercial premises
IEC 61935	Testing of balanced communication cabling in accordance with ISO/IEC 11801	AS/NZS IEC 61935	Testing of balanced communication cabling in accordance with ISO/IEC 11801
61935-1	Part 1: Installed cabling	61935.1	Part 1: Installed cabling
60068	Environmental testing	60068	Environmental testing
60068-2-61	Part 2-61: Test methods—Test Z/ABDM: Climatic sequence	60068.2.61	Part 2.61: Tests—Test Z/ABDM: Climatic sequence

Only international references that have been adopted as Australian or Australian/New Zealand Standards have been listed.

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## INTRODUCTION

Modular plug cords are constructed for connecting equipment using modular connecting hardware. It is known that connecting hardware performance is subject to influence by the properties of the modular plug termination and, therefore, modular plug cords should be tested to determine the quality of the assembly. Moreover, the performance of modular plug cords may differ due to the performances of the separate components involved depending upon the efficiency of the manufacturing procedure. Manufacturing procedures also have an impact on the reliability of these cords. This part of IEC 61935 provides test methods to ensure the compatibility of modular plug cords to be used in cabling according to ISO/IEC 11801. It also provides test methods and associated requirements to demonstrate the performance and reliability of these cords during their operational lifetime.

NOTES

## AUSTRALIAN/NEW ZEALAND STANDARD

**TESTING OF BALANCED COMMUNICATION CABLING  
IN ACCORDANCE WITH ISO/IEC 11801 –****Part 2: Patch cords and work area cords****1 Scope**

This part of IEC 61935 provides methods to ensure the compatibility of modular plug cords to be used in cabling according to ISO/IEC 11801 and provides test methods and associated requirements to demonstrate the performance and reliability of these cords during their operational lifetime.

**2 Normative references**

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60068-2-61, *Environmental testing – Part 2-61: Test methods – Test Z/ABDM: Climatic sequence*

IEC 60603-7 (all parts), *Connectors for frequencies below 3 MHz for use with printed boards – Part 7: Detail specification for connectors, 8-way, including fixed and free connectors with common mating features, with assessed quality*

IEC 61076-3-104: *Connectors for electronic equipment – Part 3-104: Rectangular connectors – Detail specification for 8-way shielded free and fixed connectors for data transmissions with frequencies up to 600 MHz minimum*

IEC 61156 (all parts) , *Multicore and symmetrical pair/quad cables for digital communications*

IEC 61935-1, *Testing of balanced communication cabling in accordance with ISO/IEC 11801 – Part 1: Installed cabling*

IEC 62153-4-7 *Metallic communication cable test methods – Part 4-7: Electro Magnetic Compatibility (EMC) – Shielded screening attenuation test method for measuring the transfer impedance  $Z_T$  and the screening attenuation  $a_s$  or the Coupling attenuation  $a_C$  of RF-Connectors and Assemblies up to and above 3 GHz<sup>1</sup>*

ISO/IEC 11801, *Information technology – Generic cabling for customer premises*

**3 Terms and definitions**

For the purposes of this document, the terms and definitions given in IEC 61935-1 apply.

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<sup>1</sup> To be published.